



## **First Annual Conference on Climate Change**

### ***From Climate to Economics: Anticipating Impacts of Climate Change in California***

## **AGENDA**

**Wednesday, June 9, 2004**

### ***Morning Session***

**I. Welcome and Introduction**

Arthur Rosenfeld, Commissioner, California Energy Commission (CEC)

8:00 a.m. – 8:15 a.m.

**II. Policy Overview to Inform the Research Agenda**

Alan Lloyd, Chairman, Air Resources Board

Steve Shaffer, Director of Agriculture and Environmental Stewardship,

California Department of Food and Agriculture

Arthur Rosenfeld, Commissioner, CEC

8:15 a.m. – 9:15 a.m.

**BREAK: 9:15 a.m. – 9:30 a.m.**

**III. Background Information** (Chair: Kelly Birkinshaw, CEC)

a) Climate Detection and Attribution

Ben Santer, Lawrence Livermore National Laboratory (LLNL)

9:30 a.m. – 10:00 a.m.

b) Preliminary Evaluation of the Potential Impacts of Climate Change in California

Joel Smith (Stratus Consulting)

10:00 a.m. – 10:30 a.m.

c) PIER Climate Change Research Strategy

Guido Franco (CEC) and

Alan Sanstad (Lawrence Berkeley National Laboratory (LBNL))

10:30 a.m. – 11:00 a.m.

**IV. Mitigation of GHG Emissions: Lessons From the Past** (Chair: Michael Hanemann, UC Berkeley)

- a) Potential Carbon Markets in California: Lessons from Other Programs  
Alex Farrell (UC Berkeley)  
11:00 a.m. – 11:20 a.m.
- b) Emissions Abatement Technology Innovation and Diffusion  
Margaret Taylor (UC Berkeley)  
11:20 a.m. – 11:40 a.m.
- c) California Energy Balances  
Lynn Price (LBNL)  
11:40 a.m. – 12:00 a.m.

**LUNCH:** 12:15 p.m. – 1:30 p.m. -

**Keynote Speaker:** Veerabhadran Ramanathan  
Atmospheric Brown Clouds and Global Dimming: Impacts on the Pacific and California

***Afternoon Session***

**V. Climate Monitoring and Analysis I** (Chair: Dan Cayan, Scripps)

- a) Earlier Springs in the Western United States: Observations and Projections  
Mike Dettinger (US Geological Survey)  
1:30 p.m. – 2:10 p.m.
- b) California Coastal Sea Level and Wind Wave Variations During the Historical Record  
Peter Bromirski (Scripps)  
2:10 p.m. – 2:30 p.m.

**VI. Development of Tools Designed to Estimate the Costs/Benefits of GHG Reductions: Preliminary Results** (Chair: Doug Wickizer (CDF) and Matt Summers (CDFA))

- a) Potential Carbon Supply in California Forests and Rangelands  
Sandra Brown (Winrock)  
2:30 p.m. – 3:00 p.m.
- b) Potential of Carbon Sequestration in California Soils  
William Salas (Applied Geosolutions) and Changsheng Li (Univ. of New Hampshire)  
3:00 p.m. – 3:30 p.m.
- c) A Dynamic General Equilibrium Model for California for Climate Change Studies  
David Roland-Holst and Peter Berck (UC Berkeley)  
3:30 p.m. – 4:00 p.m.

**BREAK: 4:00 p.m. – 4:15 p.m.**

**VII. Climate Monitoring and Analysis II** (Chair: Maurice Roos, DWR)

- a) California Climate Data Archive  
Kelly Redmond (Western Regional Climate Center)  
4:15 p.m. – 4:35 p.m.
- b) Monitoring Climate Along Elevational Transects in California: Lessons from  
Yosemite park  
Jessica Lundquist and Dan Cayan (Scripps)  
4:35 p.m. – 5:10 p.m.

**POSTER SESSION** (Chair: Ed Vine (UCOP))

Brief introduction

5:10 p.m. – 5:25 p.m.

(Refreshments) 5:30 – 7:30 p.m.



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**Thursday, June 10th  
Morning Session**

**VIII. Regional Modeling Activities and Advances for California** (Chair: Guido Franco, CEC)

- a) Regional Climate Modeling Studies for California: Future Scenarios and Impacts  
Lisa Sloan (UC Santa Cruz)  
8:00 a.m. – 8:30 a.m.
- b) Recent Advances and Analyses in Land Surface and Subsurface Processes  
within the Regional Climate System Model  
Norm Miller (LBNL)  
8:30 a.m. – 9:00 a.m.
- c) A High Resolution Climate Re-analysis for the California Region  
Hideki Kanamaru and Masao Kanamitsu (Scripps)  
9:00 a.m. – 9:30 a.m.

**BREAK: 9:30 a.m. – 10:00 a.m. (Posters will be on display)**

**IX. The Importance of Regional Assessments** (Chair: Larry Myer, UC Office of the President/California Institute for Energy and Environment)

- a) Implications of 21st Century Climate Change for the West Coast Water  
Resources: Results of the Accelerated Climate Prediction Initiative  
University of Washington Climate Impacts Group  
Dennis P. Lettenmaier  
10:00 a.m. – 10:30 a.m.
- b) Research in Support of Regional Strategies for Adaptation and Mitigation to  
Climate Change: A European Perspective  
Alex Haxeltine (Tyndall Research Center, UK)  
10:30 a.m. – 11:00 a.m.

c) Integrated Regional Climate Impacts Assessments: Lessons Learned and New Analyses for California  
Peter Frumhoff (Union of Concerned Scientists)  
11:00 a.m. – 11:30 a.m.

LUNCH 11:30 a.m. - 1:00 p.m.

**Keynote Speaker:** David Victor (Stanford University)  
The Emergence of a Global Climate Policy: What Roles for the States?

Afternoon Session

- X. Climate Change and Water Resources in California: New Approaches  
(Chair: Francis Chung, DWR)
- a) Using Modern Forecasting Tools for the Management of Reservoirs in California: An Adaptation Strategy  
Kosta Georgakakos (HRC/SIO)  
1:00 p.m. – 1:30 p.m.
  - b) A New Approach Using the CALVIN Model: Water Resources Impacts  
Jay Lund (UC Davis)  
1:30 p.m. - 2:00 p.m.
  - c) Water Reliability and Climate Change  
Michael Hanemann (UC Berkeley)  
2:00 p.m. – 2:30 p.m.

BREAK 2:30 p.m. – 2:45 p.m.

- XI. Dealing with Uncertainty in Regional Climate Change Estimates.  
(Chair: Terry Surles)
- a) A New Approach to Modeling Biodiversity Change for California  
Lee Hannah (Conservation International)  
2:45 p.m. – 3:15 p.m.
  - b) Suggestions on How to Treat Uncertainty in Climate Change Studies and Policy Formulation  
Steve Schneider (Stanford)  
3:15 p.m. - 3:50 p.m.

Final Remarks  
Guido Franco (Energy Commission)  
3:50 p.m. – 4:00 p.m.

**California Energy Commission Meeting on  
Intercomparison of California Climate Simulations  
Radisson Hotel, Sacramento, California  
Agenda  
Friday, June 11, 2004**

- 8:30 Meeting Goals - Philip Duffy, Lawrence Livermore National Laboratory (LLNL)
- 8:45 Introduction and Opening Remarks - Guido Franco, California Energy Commission (CEC)
- 9:00 AMIP: Approach and Lessons Learned - Karl Taylor, Program for Climate Model Diagnosis and Intercomparison (PCMDI)
- 9:30 Discussion
- 9:45 PRUDENCE: Approach and Lessons Learned - Jens Christensen, Danish Meteorological Institute
- 10:15 Discussion
- 10:30 Break
- 11:00 PIRCS: Approach and Lessons Learned - Bill Gutowski, Iowa State University
- 11:30 Discussion
- 11:45 OURANOUS Activities and Plans - Daniel Caya, Université du Québec à Montréal
- 12:15 Discussion
- 12:30 Lunch
- 1:30 NARCCAP Objectives and Plans - Linda Mearns, National Center for Atmospheric Research, USA.
- 2:00 Discussion
- 2:15 Regional Climate via Statistical Downscaling - Sasha Gershunov, UCSD
- 2:45 Discussion
- 3:00 Break
- 3:15 Unresolved Issues in Draft Protocol - Philip Duffy, LLNL
- 3:45 Discussion
- 5:15 Adjourn